OVERVIEW

The Halliburton EcoStar™ valve is the world’s first electric tubing-retrievable safety valve (e-TRSV). The EcoStar e-TRSV solves a 30-year industry challenge to remove hydraulic actuation and its limitations from the picture. The constraints of hydrostatics and fluid friction required to close a valve quickly in the event of an emergency, and the distance from point of control to the subsea wellhead, are removed. This enables a fully electric completion system with zero risk of exposing electronics to produced wellbore fluids and the added benefit of also serving as a conventional safety valve with the same trusted failsafe mechanisms.

This breakthrough in electric actuation is made possible through a unique coupling mechanism between the actuator and the safety valve. The design and construction of the valve creates a chamber for the downhole electronics and electric actuator outside of the wellbore, completely isolating them from well pressure and the detrimental effects of wellbore fluids. This makes it possible for operators to experience life-of-the-well reliability in electronics, a mandatory requirement for safety valve applications. In addition, the EcoStar e-TRSV provides direct positional feedback between the full-open and full-closed positions, and includes sensor communication back to the surface. This data allows for analysis and diagnostic capabilities that are not available in any other safety valve today.

The EcoStar e-DHSV eliminates the requirement for hydraulic umbilicals, providing the potential to reduce CAPEX and OPEX in more complex field developments. The EcoStar e-TRSV also helps eliminate potential environmental impacts due to loss or spills of control fluids over the long-term field life.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com